1000   ATCOTOCOCTOCOCOCACACACCACTACACTAGACCTACTCCCCCCCCACTACCTAC		QY 50			Qy 51	DD 52	Oy 52		Qy 52 Db 54	^0		Qy 54		Oy 54			Qy 55				, c	RESULT 13	AFOBE824 LOCUS DREINITION	ACCESSION	KEYWORDS SOURCE ORGANISM	REFERENCE A AUTHORS	-	JOURNAL
		CGOATGCAC 417	415	423	COMATGICAGGIGATG 429	CAATGTCAGGTGATG 427	SCCTGCTGAATATGCC 435	CTTGCCTGCTGAATATGCC 433	CCCCAGGICTCCAGACCAAG 441	439	447	453	451	CGGTGGAAGAATTTGAGCTGTGCCTTCCC 4	CGGTGGAAGAATTTGAGCTGGCCTTCCC 457	TGGTGCTTCCGAACTCGCAAATACAGCCAAA 465	50 T	469		475			487	48	4 4 8 0			
	H 10	0-	10	٠ ١٥			76	ı vo						531				 GCAGATGT	4654									

```
116 CCCAACATTTTGAAGCTGTCAAGGCTGCCACTTGTTTGGGGCAGGAAGATTGAGAAC 5175
                                                                                                                                                                                                                                                                                                                                                                                                         296 ITCACCAATTACAGTATCCTCATTGGAA@CAATAAATTCTACGAAATCGACATGAAGCAG 5355
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      656 GGGACCCCTGCCCGAGCGTACCTGGACATCCCGAACCCGCGCTACCTGGGCCCTGCCATT 5715
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      641 AAGGGAAACCTCGTGAAGGAGTCCGGCACTGAACACCACCGGGGCCCGTCCACCTCCCGC 5700
                                                                                                   041 GGGCTCTGCATCTGTGCAGCCATGCCCAGCAAAGTCGTCATTCTCCGCTACAACGAAAAC 5100
                                                                                                                                                                                                                                                                                                                                                           161 TICACCAATTACAGTATCCTCATTGGAACCAATAAATTCTACGAAATCGACATGAAGCAG 5220
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          221 TACACGCTCGAGGAATTCCTGGATAAGAATGACCATTCCTTGGCACCTGGTGTTTGCC 5280
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          356 TACACGCTCGAGGAATTCCTGGATAAGAATGACCATTCCTTGGCACCTGCTGGTTTGCC 5415
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           521 GGGACCCCTGC¢CGAGCGTACCTGGACAŢÇÇÇGAACCÇGÇGCTACCTGGGCÇÇTĢÇCAŢŢ 5580
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  581 TCCTCAGGAGGGATTTACTTGGCGTCCTCATACCAGGATAAATTAAGGGTCATTTGCTGC 5640
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   281 GCCTCTTCCAACAGCTTCCCTGT&TCATCGTGCAGGTGAACAGCGCAGGGCAGCGAGGA 5340
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          416 GCCTCTTCCAACAGCTTCCCTGTCTCAATGTGCAGGTGAACAGCGCAGGGAGGAGGAGG 5475
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              401 CGCACAGACGAICTCAAGIGGAGICGCITACCITITGGCCITIGCCTACAGAGAACCCIAT 5460
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     536 CGCACAGACGATCTCZAGTGGGTTACCTTTGGCCTTTGCCTACAGAGAACCCTAT 5595
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FTCAACTCACTCGAAGTAATTGAGATCCAGGCACGCTCCTCAGCA 5520
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              596 CTGTTTGTGACCTGACTTCACTCGAAGTAATTGAGATCCAGGCACGCTCCTCAGCA S655
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    776 AAGGGAAACCTCGTGAAGGAGTCCGGCACTGAACACCACGGGGCCGGGCCCGTCCACCCGC 5835
                                                                                                                                   176 GGGCTCTGCATCTGTGCAGCCATGCCCAGCAAGTCGFCATTCTCCGCTACAACGAAAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          461 CTGTTTGTGACCCAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              701 AG $702
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       836 AG 5837
```

AFUGENZ4 11-NOV-1998 MRNA linear ROD 11-NOV-1998 Mus musculus rho/rac-interacting citron kinase (Crik) mRNA, complete cds.

Mus musculus (house mouse) AF086824.1 GI:3599508

Mus musculus but allowed to the control of the cont

(bases 1 to 6954)

```
/function="protein kinase"
/note≈"CRIK; tho/rac binding protein; alternatively
spliced form of citron encoded by GenBank Accession Number
AF039218; similar to Mus musculus citron-K encoded by
GenBank Accession Number AF070066; similar to Rattus
norvegicus citron-K encoded by GenBank Accession Number
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /LTAIN 1 ALL 10H - "MLKEYGORNEPEASASEPIASRASILIFFQGKEPLMTQQWS
ALSREGMLDALFALFEECSQPALMKMGHYSSYQKYSDTIABLRELOGSARDFEVRSL
VGCGPFALENELOGSALMKMGHYSSYQKYSDTIABLRELOGSARDFEVRSL
VGCGPFALVOVYREKATGDVYAMKIMKKKALLAGEQUSFFEERNILGRSTSPWIPPOL
QYAFQDVONNLYLWARYQPGGDFISLLNRYEDQLDESMYQFYLABLILAMHSYQMGTY
HRDIKPENILIDRTGEIKLVDPGSAARMSNKYDAKLPIGFPYMAFBYLTYMNEDRR
PTGELCOGKENLKFEGGLCCHFFPATDMNNIKNSPPPPPTLKSDDDFNSFEEL
NSWATILCVPAEPLAFSGELFFVGFSYSKALGYLGKESENSSELKEL
LIKSKELDGOSQPKCHRORGORMPLAFRYSVBFWATNSKYBPPTLKSBDDTSNFDEPER
LIKSKELDGOSQPKCHRORGORMPLAFRYSVBFWATNSKYSKLOSTKASELASETGDLAK
TIEGSSLKRSLEQARNEVSGEDDKAJOLLHITEGSRKLOFTKESENSCHENEL
MWQLEEDLVSARRSCDLOGSERRLAGTGSTANGKYGKTONGKYBRENEL
MWQLEEDLVSARRSCDLOGSERRLAGTGSTANGKYGKTONGKYBVGGKFEVGEFS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            KLEKTINAEQOLKTÖELGEKLEKAVKASTEATELLÖNIRQÄKERAERELEKLHNREDSS
BGIKKKLVBEBERRHSLENKYKKLEFYGERRENKLKDOIGVESOJOGVADKILELEBEK
HREAQVSAGHIEVHLKQKEQHYERKINVLDNQIKKDIADKESLENMORHEEBAHEKG
KTISEQCKAMITRAMDSKIRSLEQRIVELSEANKLAANSSLFTQRNMKAGEEMISELROK
KFYLETQAGKLEAQNRKLEEGLEKISHQBADKSRLLBLETRLREVSLEHEEGKLELK
ROFTELJGERSOUTALDARRAALSSQLERGKYELETTRAERESIOALTHRDE
IQRKFDALRNSCTYTTDLESCANGUTEDNAELNNGNFYLSKQLDEASGSANDEIVQLRS
FVDHIRREITTEREMQLTSQKOTMEALKYTCTMLEEQVLDLEALNDELLEKERQWEANR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SVLGDEKSOFECRYRELORNICTEKOSRARADOR ITESEROVYELARYKEHRAEITALORNICKELORNICKERORNICKELORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORNICKERORN
Di Cunto, F., Calautti, E., Hsiao, J., Ong, L., Topley, G., Turco, E. and
                                                                                                                                                                                             Submitted (25-AUG-1998) Biology, University of Torino, Via Santena 5 bis, Torino, TO 10126, Italy Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /codon_start=1
/product="rho/rac-interacting citron kinase"
/protein_id="AAC7823.1"
/db_xref="GI:3599509"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         'organism="Mus musculus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                'mol_type="mRNA"
'db xref="taxon:10090"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /tissue_type="spleen"
1. .6954
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            gene≈"Crik"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           72. .6939
'gene="Crik"
                                                                                                                                                                                                                                                                                                                                                                                                                                  1. 6954
                                                                       Dotto, G.P.
Direct Submission
                                                                                                                                                                                                             JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     gene
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CDS
```

244 TITGICCGGAAGTAFICCGACACCATAGCIGAGTTACAGGAGCTCCAGCCTTCGGCAAAG 303

à g 8 g à g ò d à qq ò

1057 GACTTCGAAGTTCGAAGCCTTGTGGGGCTGTGGTCACTTCGCTGAAGTGCAGGTGGTTAGA 1116

304 GACTITGGAAGICAGAAGICTIGIAGGITGIGGICACTITIGCIGAAGIGCAGGIGGIAAGA

1117 GAGAAGGGGACCGGGGGACGTCTATGCCATGAAATCATGAAGAAGAAGAGCTTTGCTGGCC 1176

364 GAGAAAGCAACCGGGGACATCTATGCTATGAAAGTGATGAAGAAGAAGAAGGCTTTATTGGCC

1177 CAGGAACAGGITITCAIITITITCGAGGAGGAGGAACAIAITAITCITCGGAGCACGAGTCCI 1236

П

g

 $\dot{\delta}$ OD  $\delta$ d ò

ò

484 TGGATCCCCCAATTACAGTATGCCTTTCAGGACAAAAATCACCTTTATCTGATGGAGGAA

424 CAGGAGCAGGTTTCATTTTTTGAGGAAGAGCGGAACATATTATCTCGAAGCACAAGCCCG 483

137 TGGATCCCCCAGTTACAGTACGCCTTTCAGGACAAAAATAACCTTTACCTGGTCATGGAA 1296

1357 AGCATGATCCAGTTTTACCTTGCTGAGCTGATTTTGGCTGTCCACAGCGTGCACCAGATG 1416

604 AACCTGATACAGTTTTACCTAGCTGAGCTGATTTTGGCTGTTCACAGCGTTCATCTGATG

664 GGATACGTGCATCGAGACATCAAGCCTGAGAACATTCTCGTTGACCGCACAGGACACATC 723

1417 GGATATGTGCATCGAGACATCAAGCCCGAGAACATCCTCATCGACGGCACGGGAGAGATC 724 AAGCIGGIGGATITIGGATCIGCCGCGAAAATGAATTCAAACAAGATGGTGAAAA

Db

à g à

1477 AAGCTGGTGGATTTTGGATCAGCCGCTAAGATGAATTCAAATAA---GGTGGATGCCAAA 1533

783

1534 crecedardegaececegarracarecerecegaagrerreacegrereacegrangaegae 1593

Dp

à g à g ð 임

CGLPASYATHFTEAFCRDKMNSPGLQSKEFGSSLHLEGWMKVPRNNKRGQQGWDRKYT VLEGSKVLIYDNEAREAGQRPVEEFELCLPDGDVSIHGAVGASELANTAKADVPYILK MESHPHTTCWPGRTLYLLAPSFPDKQRWVTALESVVAGGRVSREKAEADAKLLGNSLL

KLEGDDRLDMACTLPFSDQVVLVGTBEGLYALNVLKNSLTHIPGIGAVFQIYIIKDLE KLLMIAGEBRALCLVDVKKVKQSLACSHLPADPOSPNIFENSYMGGHLFAAGKIBNSL CICAAMPSKVVILRYNDNLSKYCIRKDIETSEPCSCIHFTNVSILIGTNKRYEIDMKQ YILDSFLDKNDHSLAPAVPASSSNSFPVSIVQANSAGREEVILCFHEFGVFVDSYGR

YTLDEFLDKOUDHSLAPAYPASSSNSFPYSIYQANSAGQREEYLLCFHEFGYFVDSYGR RSRTDDLFKKKRLPLAPAYREPYLLYHFNSLSIYIE QARASELSPRAYLEI PRRYI GPAISSGAIYLASSYQDKLKHYICKGXILYKEGYTEQHRYDSTSRSSPWKAGPPTYNEH ITKRYASSPAPPEGPSHPREPSTPHRYRDREGKTELRRDKSPGRPLEREKSPGRMLST

ITKRVASSPAPPEGPSHPREPSTPHRYRDREGRTELRRD. RRERSPGRLFEDSSRGRLPAGAVRTPLSQVNKVWDQSSV

784 CTCCCGATTGGGACCCCCAGATTACATGGCTCCTGAAGTGCTGACTGTGATGAACGGGGAT

844 GGAAAAGGCACCTACGGCCTGGACTGTGACTGGTGGTCAGTGGCGTGATTGCCTATGAG 903

1714 ATGAACTTCCAGCGGTTTTTGAAGTTCCCAGATGACCCCAAAGTTAGCAGTGAGCCTT 1024 GAICTGAITCAAAGCITGITGIGCGCCAGAAAGAGAGACTGAAGTITGAAGGTCTITGC 

ठ

a

ATGATTTATGGGAGATCCCCCTTCGCAGAGGGAACCTCTGCCAGAACCTTCAATAACATT

904

Query Match 70.5%; Score 4612.4; DB 10; Length 6954; Best Local Similarity 85.6%; Pred. No. 0; Matches 5341; Conservative 0; Mismatches 641; Indels 254; Gaps

ò ď ò

64 GCTGCTGAACCCATTGCCAGCCGGGCCTCCAGGCTGAAICTGTTCTTCCAGGGGAAACCA 123

1143 1144 GTTCCCACCTCAAGTCTGACGATGACACCTCCAATTTTGATGAACCAGAGAAGAATTCG 1203 1084 IGCCATCCTTTCTTCTTAAAATTGACTGGAACAACATTCGTAACTCTCCTCCCCCTTC 1834 reccarcerrerraecagaaceaacteaaacaacaacarecerecerecerre à 임

ઠે

DP

8 & 8 & 8

상 임 දු පු

장 A 장

8 8

6 8 6 8 6 8 6 8 6 8 6 8

g

\$ B \$ B \$

3152 2654 3452 2714 2774 3752 3813 ACTCGATGAGGCTTCCGGGGCCAATGACGAGATTGTGCAGCTGCGGGGGTGAGGTGGAGGTGACCA 3872 3453 GCTGGAACAAGGCTGAGGGAGGTCAGCCTGGAGCACGAGGAGCAGGAAGCTGGAA 3512 3633 GACAACCGCGGAAAGGGGAAGAAGAACCAGGCGCTCACGGCACATCGCGATGAGATCCA 3692 2955 AAACCAGCTGACCGAGGACAACGCTGAACTCAACAAACTTCTACTTGTCCAAACA 3014 4052 3392 3572 3873 TCTCCGCCGTGAGATCACGGAGCGGAGATGCAGCTCACCCAGACGAAGCAAACGATGGA 3932 GOCTCTGAAGACCACGTGCACCATGCTGGAGAACAGGTCATGGATTTGGAGGCCCTAAA 3194 CGATGAGCTGCTAGAAAAAAAGGGGCAGTGGGAGGCCTGGAGGAGGCGTCCTGGGTGATGA 3254 GAAATCCCAGTTTGAGTGCGGGTTCGAGAGCTGCAGAAATGCTGGACACCGAGAAACA 3314 4053 GAAGTCCCAGTTCGAGTGTCGAGTTCGAGGTACAGAGGATGCTGGACACCGAGAAGCA 4112 3093 GAAGGACCTGGCCGACAAGAAGAGCCTGGAGAACATGATGCAGAGACACGAGGAGGAGGC CCATGAGAAGGGCAAAATTCTCAGCGAACAGAAGGCGATGATCAATGCTATGGATTCCAA 3693 GCGCAAATTCGATGCCCTTCGCAACAGCTGCACGGTCATCACCGACCTGGAGGAGCAGCT 3753 GAACCAGCTCACCGAGGACAACGCCGAGCTCAACAAACCTAACTTCTACCTGTCCAAACA 3153 CCACGAGAAGGGCAAGATCCTCAGCGAGCAGAAGGGGATGATCAACGCGATGAATTCCAA 3213 GATCCGATCCCTGGAGCAGGATCGTGGAGCTGTCGGAAGCCAACAAGGTTGCGGCAAA 3273 CAGCAGTCTCTTCACCCAGAGGAACATGAAGGCCCAGGAAGAGAGATGATGTCAGAACTCAG GCGCAAATTTGATGCTCTTCGTAACAGCTGTACTGTAATCACAGACCTGGAGGAGCAGCT ACTOGATGAGGCTTCTGGCGCCAACGACGAGATTGTACAACTGCGAAGTGGAAGTGGACCA CTTGAAACAGAAGGAACAGCACTACGAGGAAAAGATCAAGGTATTGGACAATCAGATAAA GATCAGATCCCTGGAACAGGATTGTGGAACTGTCTGAAGCCAATAAACTTGCAGCAAA TAGCAGTCTTTTTACCCAAAGGAACATGAAGGCCCCAAGAAGAGATGATTTCTGAACTCAG CCTGAAACAGAAGAGCACTATGAGGAAAAGATTAAAGTGTTGGACAATCAGATAAA GAAAGACCTGGCTGACAAGGAGACACTGGAGAACATGATGCAGAGACACGAGGAGGAGGAGCC GCAACAGAAATTTTACCTGGAGACACAGGCTGGGAAGTTGGAGGCCCAGAACCT GACCACAGCAGAAGAGGAGGAGATCCAGGCACTCACGGCCACATAGAGATGAAATCCA 3333 GCAGCAGAATTTTACCTGGAGACGCAGGCCGGAAGCTGGAGGCCCAGAACCGAAAGCT GGAGGAGCAGCTGGAGAAGATCAGCCACCAAAGACCACAGTGACAAGAATCGGCTGCTGGA GGAAGAGCAACTGGAGAAGATCAGCCACCACGAGATCACAGTGAAGAGTGGGCTGCTGGA 2655 ACTGGAGACAAGATTGCGGGAGGTCAGTCTAGAGCACAGGAGCAGAAACTGGAGCTCAA 3513 GCGCAGCTCACGGAGCTGCAGCTGTCCCTGCAGGGGCGCGAGTCCCAGCTGACTGTCCCT 3573 GCAGGCCGCCCGGGCAGCGCTGGAGAGCCAGCTCCGCCAGGCGAAGACAGAGCTGGAGGA cancaractractracaratasaracactastrasarasarasceresasaratrasarata GCGCCAGCTCACAGAGCTACAGCTCTCCCTGCAGGAGCGCGAGTCACAGTTGACAGCCCT 2235 2475 2595 3393 3015 2295 2355 2535 2715 2835 2895 3075 3033 2775 3135 3933 3195

a a kon

첫 원

차 유

2 4 2

සු දු ස

አ 8 አ

# # #

8 ጵ 8 ጵ

\* \* \*

QC

à

à

්ኡ ዳ

2 2 2

a

à

셤 ò g g à a

ਨੇ

能物が大学題

```
5564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  6228 GGCCGGGCAGCGAGAATACCTGCTGTGCTTCCACGAATTTGGGGGTGTTCGTGGATTC 6287
                                                                                                                                                                                                                                                                                                                                                                                               6288 TTACGGAAGACGTAGCCGCACAGATGATCTCAAGTGGAGTCGCTTACCTCTGGCCTTTCGC 6347
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         5445 CTACAGAGAACCCTATCTGTTTTGTGACCCACTTCAACTCGAAGTAATTGAGATCCA 5504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5565 CCTGGGCCCTGCCATTTCCTCAGGAGCGATTTACTTGGCGTCCTCATACCAGGATAAATT 5624
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         5625 AAGGGTCATTIGCTGCAAGGGAAACCTCGTGAAGGAGTCCGGCACTGAACACCACCGGGG 5684
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        6528 AAGGGTCATATGCTGCAAAGGAAACCTCGTGAAGGAGTCAGGCACTGAGCAGCACCGGGT 6587
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        5685 CCCGTCCACCTCCCCCAGCCCCCAACAAGCGAGCCCACCACGTACAACGAGCACAT 5744
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      6648 CACCAAACGCGTGGCCTCCAGCCCGGCGCCACCGGAAGGCCCCCAGCCACCCCCGAGAGCC 6707
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  5805 AAGCACCCCCACCCTACC----GCGAGGGGCGGACCGAGCTGCGCAGGACAAGTC 5858
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  6708 AAGCACCACCGCTACCGAGACACAGAGGGTCGGACAGAGCTGCGCAGGGACAAGTC 6767
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TCCTGGCCCCCCTGGAGCGAGAGAGTCCCCCGGCCGGATGCTCAGCACGCGGAGAGA 5918
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            6408 GGCCAGATCCTCACTGGGGGGCCCTGCCGGGCATATCTGGAAATTCCAAACCCTCGCTA 6467
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         6527
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             6588 GCCCTCCACCTCCCGCAGCAGCCCCAACAAGGGCCCCACCAACATACAACGAGCACAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5745 CACCAAGCGCGTGGCCTCCAGCCCAGGCCGCCGAAGGCCCCAGCCACCGCGAGAGCC 5804
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       rccassicicic reresas de casa de constante de
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5979 GAGGACCCCGCTGTCCCAGGTGACAAGGGAAGAGGCCAGAGTGCCTCTCAAGTTT 6034
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           6888 GAGGACCCACTGTCCCAGGTTAACAAGGTCTGGGACCAGTCTTCAGTATAAGTCT 6943
                                                                                                                                                                                                     5385 TTACGGAAGACGTAGCCGCACAACGATCTCAAGTGGAGTCGCTTACCTTTGGCCTTTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          5505 GGCACGCTCCTCAGCAGGACCCCTGCCCGAGCGTACCTGGACATCCCGAACATCCGGGCCTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         6468 ceredeceredearrineereceaacearrinaaciegeereerekorearaarri
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             5859
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       6269
```

d

à

g

à

g

à

셤

à

g

ò

ઠે

```
Arusyla S952 bp /mRNA linear ROD 02-JUL-1998
Rattus norvegicus postsynaptic defisity protein (citron) mRNA,
complete cds.
                                                            AF039218.1 GI:2745839
                                                                                                                                       Rattus.
1 (bases 1 to 5952)
                                                                                                                                                                                                     Jnpublished
                                                 AF039218
                                              ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                       DEFINITION
                                                                                                                                                                                                                                           TITLE
                                                                                                                                                                                                                REFERENCE
AUTHORS
                                                                                                                                                                                                      JOURNAL
                                                                                                                                                    REFERENCE
AF039218
                                                                                                                                                                          TITLE
```

Rattus norvegicus (Norway rat) Rattus norvegicus Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentýa; Sciurognathi; Muridae; Murinae; (1997) Biology, Caltech, Pasadena, CA 91125, USA Zhang, W., Apperson, W.L. Vasquez, L.E. and Kennedy, M.B. Citron, a PSD-95-binding protein at glutamatergic synapses on inhibitory neurons 2 (bases 1 to 5952)/Zhang W. Apperson M.L. and Kennedy, M.B. Direct Submission Submitted (18-DEC/1997) Biology, Caltech Location//Qualifiers FEATURES

/organism="Rattus norvegicus" /mol\_type="mRNA"

```
TECSSLKRSLEGGARMEVSGEDDKALQLLHDI REQSRKLOEIKEGEYGAQVEEMRLMMN
QLEEDLVSARBRSDLYESELRESRLAAEEFKRKANECQHKLMKAKDLGKPEVGECSRL
EKINAEQQLKÇQLKÇEKAVKASTEATELLQNI RQAKERAERELEKLHNREDSSEG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LSEOKAMTNAMDSKITRSLEORIVELSEANKTAANSSLFTORNMKAGERISELROCKF
YLETOAGKLEAONRKLEBOLEKISHODHSDKNRLLELETRLREVSLEHEEQKLELKRO
LTELOLGERESQLTALQAARAALESQLRQAKTELEETTAEAEBEIQALTAHRDEIO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LEVIEIORRSSLGTPARAYLEIPNPRYLGPAISSGAIYLASSYODKLRVICCKGNLVK
ESGTEOHRVPSTSRSPNKRGPPTYNEHITKRVASSPAPPEGPSHPREPSTPHRYRDRE
GRTELRRDKSPGRPLEREKSPGRMLSTRRERSPGRLFEDSSRGRLPAGAVRTPLSQVN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      'n
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          IKKKLVEAEGRRHSLENKVKRLETWERRENRLKDDIQTKSEQIQQMADKILELEEKHR
EAQVSAQHŽEVHLKQKEQHYEEKIKVLDNQIKKDLADKESLETMMQRHEEEAHEKGKI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RKFDAŽRNSCTVITOLEBOLNOLTEDNAELMNONFYLSKOLDEASGANDEIVOLRSEV
DHLRFEITEREMOLTSOKOTMBALKTTCTMLEBOVMDLEALNDELLEKEROWEAWRSV
LGDBKSOPECRVRELORMLDTEKOSRARADORITESROVVELAVKEHKABILALQOAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 KEQŽIKĀESISDKINDLEKKHAMĪEMNARSIÇQKIETĒREIKQRIJEBGAKIQQQMDI
QKĢHIFRLIQGLQEALDRADLIKTERSDLEYQLENIQVIYSHEKVKMEGTISQQTKLI
DŖĻĢAKMDQPAKKKKGLFSRRKEDFALPTQVPLQYNEIKLALEKEKARCAELESALQK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ACHPKCSTCLPATCGLPARYATHFTBAFCRDKVSSPGLQSKEPSSGLHLEGWMKVPRN
KKRGQGGWDRKYIVLEGSKVLIYDNEAREAGQRPVBEFELCLPDGDVSIHGAVGASEL
ANTAKADVPYILKMESHPHTTCWPGRTLYLLAPSPPDKQRWVTALESVVAGGRVSREK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1/17 AGATGGAGCAGGAAATGACCCGGTTACATCGGAGAGTGTCAGAGGTGGAGGTGTGTT 1476
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             477 AGTCAGAAGGAGGTGGAGCTGAAGGCCTCTGAGACTCAGAGATCCCTCCTGGAGCAGGAC 1536
                                                                                                                                                                                                                                                                                                        /db_xref="G1:2745840"
/translation≠"MEQEMARLHRRVSEVEAVISQKEVELKASETQRSLLEQDLATYI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TRIBLESAREBAAHRKATDHPHPSTPATARQQIAMSAIVRSPEHQPSAMSLLAPPSSR
RKBASTPEEFSRRLKERMHINIPHRFINVGLIMRATKCAVCLDTVHPGROASKCLECOV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ALNVLKNSLTHI PGI GAVFQIYI IKDLEKLLMI AGEERALCIVUVKKVKOSLAQSHLP
AQPDVSPNI PEAVKGCHLFAAGKI ENSLCI CAAMPSKVVI LRYNDNLSKFCI RKEI ET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  VQANSTGQREEYLLCFHEFGVFVDSYGRRSRTDDLKWSRLPLAFAYREPYLFVTHFNS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                abadaawdctscerlpvwyekilgnslikiegddridmnctipfsdovylvgtergly
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEPCSCIHFTNYSILIGTNKFYEIDMKQYTLEEFLDKNDHSLAPAVFASSTNSFPVSI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GAGGTGTCCCAGGAGGATGACAAAGCACTGCAGCTTCTCCCATGATATCAGAGGAGGAGGC 1656
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1657 CGGAAGCTCCAAGAAATCAAAGAGCAGGAGTACCAGGCTCAAGTGGAAAGAATGAGGTTG 1716
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1717 ATGAFGAATCGGTTGGAAGGGTCTTGTCTCAGCAAGAAGACGGAGTGATCTCTACGAA 1776
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   670 AGTCAGAAGGAGGTGGAGGTGAAGGCCTCTGAGACTCAGAGATCCCTCCTGGAGGAGCAGGAC 729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      790 GAGGTGTCTCAGGAGGATGACAAAAGCTCTTCAGCTTCTCCACGACATCAGAGAGCAGAGC 849
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   850 CGGAAGCTCCAGGAGTCAAGGAGCAGCAGAGTACCAGGTCAGGTGGAGGAGATGAGGTG 909
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 5922; Score 3602.6; DB 10; Length 5952; Best Local Similarity 85.7%; Pred. No. 0; Matches 4471; Conservative 0; Mismatches 444; Indels 252; Gaps
                                                                                                                                                                 function="interacting with Rho family GTPases"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        3052. .3096
/gene="citron"
/note="may be excised by alternative splicing"
4066. .4110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /gene="citron"
/note="may be excised by alternative splicing"
                                                                                                                                                                                               'codon_start=1
'product="posts/naptic density protein"
'protein_id="AAC25483.1"
db_xref="taxon:10116"
                                                               gene="citron"
                                                                                                                                   gene="citron"
                                                                                                 .5469
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             KVWDQSSV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             misc_feat
                                 gene
                                                                                             CDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    යු
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
```